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Summary

This template summarizes the primary data and derived indices¹ found in the standard trabecular bone histomorphometry template of BIOQUANT OSTEO II. This is not a complete list.

Easily Add or Customize Indices

BIOQUANT data collection and report is highly adaptable and may be immediately expanded to include other primary and derived indices. The list below is a common beginning place that is expanded or simplified to suit the needs of the laboratory.

Calculated Indices

Please check the calculated Indices you would like to be included in your template.

Volume Measurements

- TV Tissue Volume (mm²)
- BV Bone Volume (mm²)
- Md.V Mineralized Volume (mm²)
- OV Osteoid Volume (mm²)
- BV/TV Bone/Tissue Volume (%)
- Md.V/BV Mineralized/Bone Volume (%)
- Md.V/TV Mineralized/Tissue Volume (%)
- OV/BV Osteoid/Bone Volume (%)
- OV/TV Osteoid/Tissue Volume (%)
- Additional Unlimited Custom Indices

Thickness Measurements

- O.Th Osteoid Thickness (mcm)
- W.Th Wall Thickness (mcm)
- Ir.L.Th Interlabel Thickness (mcm)
- Additional Unlimited Custom Indices

Number Measurements

- N.Ob Osteoblast Number
- N.Oc Osteoclast Number
- N.Ob/OS Osteoblast Numb/Osteoid Surf (Ob/mm)
- N.Oc/ES Osteoclast Numb/Erosion Surf (Oc/mm)
- Additional Unlimited Custom Indices

Surface Measurements

- BS Bone Surface (mm)
- OS Osteoid Surface (mm)
- Ob.S Osteoblast Surface (mm)
- ES Erosion Surface (mm)
- Oc.S Osteoclast Surface (mm)
- QS Quiescent Surface (mm)
- sLS Single Labeled Surface (mm)
- dLS Double Labeled Surface (mm)
- BS/BV Bone Surface / BV (mm⁻¹)
- BS/TV Bone Surface / TV (mm⁻¹)
- OS/BS Osteoid/Bone Surface (%)
- ES/BS Erosion/Bone Surface (%)
- QS/BS Quiescent/Bone Surface (%)
- Ob.S/BS Osteoblast/Bone Surface (%)
- Oc.S/BS Osteoclast/Bone Surface (%)
- Additional Unlimited Custom Indices

Structural Indices

- Tb.Th Trabecular Thickness (Plate Model) (mcm)
- Tb.N Trabecular Number (Plate Model)(mcm-1)
- Tb.Sp Trabecular Separation (Plate Model) (mcm)
- Additional Unlimited Custom Indices

Kinetic Indices

- MS Mineralizing Surface (mm)
- MS/BS Mineralizing/Bone Surface (%)
- MAR Mineral apposition rate (mcm/day)
- Aj.AR Adjusted apposition rate (mcm/day)
- BFR/BS Bone formation rate (mcm/day)
- Mlt Mineralization lag time (days)
- Omt Osteoid maturation time (days)
- FP Formation period (days)
- Rs.P Resorption period (days)
- Rv.P Reversal period (days)
- Rm.P Remodeling period (days)
- QP Quiescent period (days)
- Tt.P Total period (days)
- Ac.f Activation frequency (/year)
- Additional Unlimited Custom Indices

1. Parfitt AM, Drezner MK, Glorieux FH, Kanis JA, Malluche H, Meunier PJ, Ott SM, Recker RM. 1987. Bone histomorphometry: standardization of nomenclature, symbols, and units. J Bone Miner Res 2:595-610.